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1631

DATE: 11/12/2001  
TIME: 14:48:52

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/486,623A  
 Input Set : A:\ISPA3292.ST25.txt  
 Output Set: N:\CRF3\11122001\I486623A.raw

PS

ENTERED

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3 <110> APPLICANT: Nielsen, Peter E.
4   Good, Liam
6 <120> TITLE OF INVENTION: Peptide Nucleic Acids Having Antibacterial Activity
8 <130> FILE REFERENCE: ISPA3292
10 <140> CURRENT APPLICATION NUMBER: 09/486,623A
11 <141> CURRENT FILING DATE: 2000-07-06
13 <150> PRIOR APPLICATION NUMBER: PCT/US98/19199
14 <151> PRIOR FILING DATE: 1998-09-16
16 <150> PRIOR APPLICATION NUMBER: 08/932,140
17 <151> PRIOR FILING DATE: 1997-09-16
19 <160> NUMBER OF SEQ ID NOS: 27
21 <170> SOFTWARE: PatentIn version 3.1
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25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Novel Sequence
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37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
41 <223> OTHER INFORMATION: Novel Sequence
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47 <210> SEQ ID NO: 3
48 <211> LENGTH: 17
49 <212> TYPE: DNA
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: Novel Sequence
55 <400> SEQUENCE: 3
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61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Novel Sequence
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71 <210> SEQ ID NO: 5
72 <211> LENGTH: 15
73 <212> TYPE: DNA

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Input Set : A:\ISPA3292.ST25.txt  
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74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Novel Sequence
79 <220> FEATURE:
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81 <222> LOCATION: (1)..(14)
82 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine
83     backbone
86 <220> FEATURE:
87 <221> NAME/KEY: misc_feature
88 <222> LOCATION: (15)..(15)
89 <223> OTHER INFORMATION: Modified site. N-[ acetyl (2-aminoethyl)]-C-lysine-
90     glycine backbone
93 <400> SEQUENCE: 5
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97 <210> SEQ ID NO: 6
98 <211> LENGTH: 15
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Novel Sequence
105 <220> FEATURE:
106 <221> NAME/KEY: misc_feature
107 <222> LOCATION: (1)..(14)
108 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine
109     backbone
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: (15)..(15)
115 <223> OTHER INFORMATION: Modified site. N-[ acetyl (2-aminoethyl)]-C-lysine-
116     glycine backbone
119 <400> SEQUENCE: 6                                         15
120 tactcatact cttcc
123 <210> SEQ ID NO: 7
124 <211> LENGTH: 15
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Novel Sequence
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (1)..(14)
134 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine
135     backbone
138 <220> FEATURE:
139 <221> NAME/KEY: misc_feature
140 <222> LOCATION: (15)..(15)
141 <223> OTHER INFORMATION: Modified site. N- [acetyl (2-aminoethyl)]-C-lysine-
142     glycine backbone

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RAW SEQUENCE LISTING DATE: 11/12/2001  
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Input Set : A:\ISPA3292.ST25.txt  
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154 <220> FEATURE:
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157 <220> FEATURE:
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159 <222> LOCATION: (1)..(14)
160 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine
161      backbone
164 <220> FEATURE:
165 <221> NAME/KEY: misc_feature
166 <222> LOCATION: (15)..(15)
167 <223> OTHER INFORMATION: Modified site. N-[acetyl (2-aminoethyl)]-C-lysine-glysine
168      backbone
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175 <210> SEQ ID NO: 9
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181 <223> OTHER INFORMATION: Novel Sequence
183 <220> FEATURE:
184 <221> NAME/KEY: misc_feature
185 <222> LOCATION: (1)..(1)
186 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine backbone
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190 <221> NAME/KEY: misc_feature,
191 <222> LOCATION: (2)..(4)
192 <223> OTHER INFORMATION: Modified site. N-pseudo isocytosine-acetyl (2-aminoethyl)
glycine
193      backbone
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: (5)..(6)
199 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine backbone
202 <220> FEATURE:
203 <221> NAME/KEY: misc_feature
204 <222> LOCATION: (7)..(7)
205 <223> OTHER INFORMATION: Modified site. N-pseudo isocytosine-acetyl (2-aminoethyl)
glycine
206      backbone
209 <220> FEATURE:
210 <221> NAME/KEY: misc_feature
211 <222> LOCATION: (8)..(8)
212 <223> OTHER INFORMATION: Modified site.
213      (O-2-aminoethyl-O'-acetyl-ethyleneglycol), (O-2-aminoethyl-O'-ace

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RAW SEQUENCE LISTING DATE: 11/12/2001  
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Input Set : A:\ISPA3292.ST25.txt  
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214      tyl-ethyleneglycol), (O-2-aminoethyl-O'acetyl-ethyleneglycol)
217 <220> FEATURE:
218 <221> NAME/KEY: misc_feature
219 <222> LOCATION: (9)..(14)
220 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine backbone
223 <220> FEATURE:
224 <221> NAME/KEY: misc_feature
225 <222> LOCATION: (15)..(15)
226 <223> OTHER INFORMATION: Modified site. N-[acetyl (2-aminoethyl)]-C-lysine-glycine
backbon
227      e
230 <400> SEQUENCE: 9
231 tnnnnttnct tcctc 15
234 <210> SEQ ID NO: 10
235 <211> LENGTH: 15
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Novel Sequence
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <222> LOCATION: (1)..(1)
245 <223> OTHER INFORMATION: Modified site. N-pseudo isocytosine-acetyl (2-aminoethyl)
246      glycine backbone
249 <220> FEATURE:
250 <221> NAME/KEY: misc_feature
251 <222> LOCATION: (2)..(4)
252 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine
253      backbone
256 <220> FEATURE:
257 <221> NAME/KEY: misc_feature
258 <222> LOCATION: (5)..(6)
259 <223> OTHER INFORMATION: Modified site. N-pseudo isocytosine-acetyl (2-aminoethyl)
260      glycine backbone
263 <220> FEATURE:
264 <221> NAME/KEY: misc_feature
265 <222> LOCATION: (7)..(7)
266 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine
267      backbone
270 <220> FEATURE:
271 <221> NAME/KEY: misc_feature
272 <222> LOCATION: (8)..(8)
273 <223> OTHER INFORMATION: Modified site.
274      (O-2-aminoethyl-O'-acetyl-ethyleneglycol),(O-2-aminoethyl-O'acety
275      l-ethyleneglycol), (O-2-aminoethyl-O'acetyl-ethyleneglycol)
278 <220> FEATURE:
279 <221> NAME/KEY: misc_feature
280 <222> LOCATION: (9)..(14)
281 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine
282      backbone

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/486,623A

DATE: 11/12/2001  
TIME: 14:48:52

Input Set : A:\ISPA3292.ST25.txt  
Output Set: N:\CRF3\11122001\I486623A.raw

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285 <400> SEQUENCE: 10
286 ntttnntntc ctttc
289 <210> SEQ ID NO: 11
290 <211> LENGTH: 15
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Novel Sequence
297 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
299 <222> LOCATION: (1)..(14)
300 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine
301 backbone
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
306 <222> LOCATION: (15)..(15)
307 <223> OTHER INFORMATION: Modified site. N-[acetyl (2-aminoethyl)] -C-lysine-
308 glycine backbone
311 <400> SEQUENCE: 11
312 catactctt ctctt
315 <210> SEQ ID NO: 12
316 <211> LENGTH: 25
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Novel Sequence
323 <220> FEATURE:
324 <221> NAME/KEY: misc_feature
325 <222> LOCATION: (1)..(2)
326 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine
327 backbone
330 <220> FEATURE:
331 <221> NAME/KEY: misc_feature
332 <222> LOCATION: (3)..(3)
333 <223> OTHER INFORMATION: Modified site. N-pseudo isocytosine-acetyl (2-aminoethyl)
334 glycine backbone
337 <220> FEATURE:
338 <221> NAME/KEY: misc_feature
339 <222> LOCATION: (4)..(4)
340 <223> OTHER INFORMATION: Modified site. N-acetyl (2-aminoethyl) glycine
341 backbone
344 <220> FEATURE:
345 <221> NAME/KEY: misc_feature
346 <222> LOCATION: (5)..(7)
347 <223> OTHER INFORMATION: Modified site. N-pseudo isocytosine-acetyl (2-aminoethyl)
348 glycine backbone
351 <220> FEATURE:
352 <221> NAME/KEY: misc_feature
353 <222> LOCATION: (8)..(10)

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Use of n and/or Xaa has been detected in the Sequence Listing.

Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

**VERIFICATION SUMMARY** DATE: 11/12/2001  
PATENT APPLICATION: US/09/486,623A TIME: 14:48:53

Input Set : A:\ISPA3292.ST25.txt  
Output Set: N:\CRF3\11122001\I486623A.raw

L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:635 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20